

In the Claims:

1. (currently amended) An automatic dishwasher detergent formulation comprising: -
(a) a metal complex compounds of formula (1)



wherein Me is manganese, titanium, iron, cobalt, nickel or copper,

X is a co-ordinating or bridging radical,

n and m are each independently of the other an integer having a value of from 1 to 8,

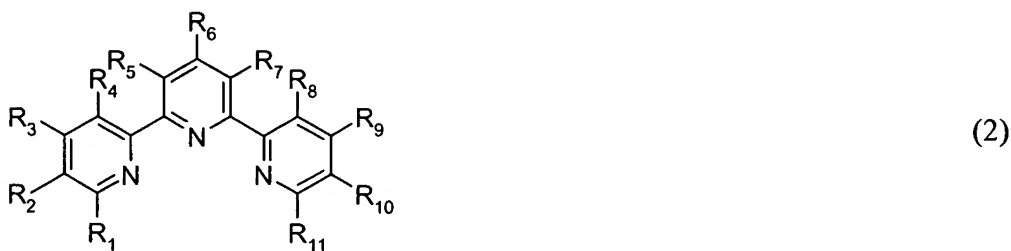
p is an integer having a value of from 0 to 32,

z is the charge of the metal complex,

Y is a counter-ion,

q = z/(charge Y), and

L is a ligand of formula (2)



wherein

R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, R₁₀ and R₁₁ are each independently of the others hydrogen; unsubstituted or substituted C₁-C₁₈alkyl or aryl; cyano; halogen; nitro; -COOR₁₂ or -SO₃R₁₂ wherein R₁₂ is in each case hydrogen, a cation or unsubstituted or substituted C₁-C₁₈alkyl or aryl; -SR₁₃, -SO₂R₁₃ or -OR₁₃ wherein R₁₃ is in each case hydrogen or unsubstituted or substituted C₁-C₁₈alkyl or aryl; -N(R₁₃)-NR'₁₃R''₁₃ wherein R₁₃, R'₁₃ and R''₁₃ are as defined above for R₁₃; -NR₁₄R₁₅ or -N[⊕]R₁₄R₁₅R₁₆ wherein R₁₄,

R₁₅ and R₁₆ are each independently of the other(s) hydrogen or unsubstituted or substituted C₁-C₁₈alkyl or aryl, or R₁₄ and R₁₅ together with the nitrogen atom bonding them form an unsubstituted or substituted 5-, 6- or 7-membered ring which may optionally contain further hetero atoms;
with the proviso that R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, R₁₀ and R₁₁ are not simultaneously hydrogen, as a catalyst for oxidation reactions; and
(b) an enzyme.

2.(original) A formulation according to claim 1, wherein Me is manganese which is present in oxidation state II, III, IV or V.

3.(currently amended) A formulation according to claim 1 ~~to either claim 1 or claim 2~~, wherein

X is CH₃CN, H₂O, F⁻, Cl⁻, Br⁻, HOO⁻, O₂²⁻, O²⁻, R₁₇COO⁻, R₁₇O⁻, LMeO⁻ or LMeOO⁻ wherein R₁₇ is hydrogen or unsubstituted or substituted C₁-C₁₈alkyl or aryl, ~~and L and Me are as defined in claim 1.~~

4.(currently amended) A formulation according to claim 1 ~~any one of claims 1 to 3~~, wherein Y is R₁₇COO⁻, ClO₄⁻, BF₄⁻, PF₆⁻, R₁₇SO₃⁻, R₁₇SO₄⁻, SO₄²⁻, NO₃⁻, F⁻, Cl⁻, Br⁻ or I⁻ wherein R₁₇ is hydrogen or unsubstituted or substituted C₁-C₁₈alkyl or aryl.

5. (currently amended) A formulation according to claim 1 ~~any one of claims 1 to 4~~, wherein n is an integer having a value of from 1 to 4, especially 1 or 2.

6.(currently amended) A formulation according to claim 1 ~~any one of claims 1 to 5~~, wherein m is an integer having a value of 1 or 2, especially 1.

7.(currently amended) A formulation according to claim 1 ~~any one of claims 1 to 6~~, wherein p is an integer having a value of from 0 to 4, especially 2.

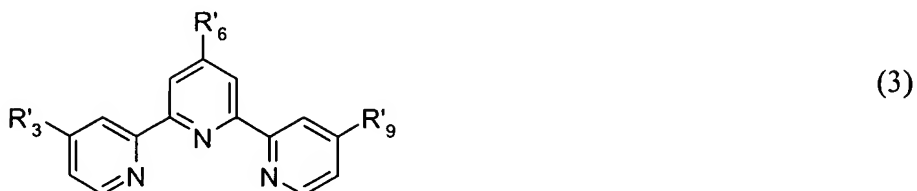
8.(currently amended) A formulation according to claim 1 ~~any one of claims 1 to 7~~, wherein z is an integer having a value of from 8- to 8+.

9.(currently amended) A formulation according to claim 1 ~~any one of claims 1 to 8~~, wherein aryl is phenyl or naphthyl unsubstituted or substituted by C₁-C₄alkyl, C₁-C₄alkoxy, halogen, cyano, nitro, carboxyl, sulfo, hydroxyl, amino, N-mono- or N,N-di-C₁-C₄alkylamino unsubstituted or substituted by hydroxy in the alkyl moiety, N-phenylamino, N-naphthylamino, phenyl, phenoxy or by naphthoxy.

10.(currently amended) A formulation according to claim 1 ~~any one of claims 1 to 9~~ wherein the 5-, 6- or 7-membered ring formed by R₁₄ and R₁₅ together with the nitrogen atom bonding them is an unsubstituted or C₁-C₄alkyl-substituted pyrrolidine, piperidine, piperazine, morpholine or azepane ring.

11. (currently amended) A formulation according to claim 1 ~~any one of claims 1 to 10~~, wherein R₆ is C₁-C₁₂alkyl; phenyl unsubstituted or substituted by C₁-C₄alkyl, C₁-C₄alkoxy, halogen, cyano, nitro, carboxyl, sulfo, hydroxyl, amino, N-mono- or N,N-di-C₁-C₄alkylamino unsubstituted or substituted by hydroxy in the alkyl moiety, N-phenylamino, N-naphthylamino, phenyl, phenoxy or by naphthoxy; cyano; halogen; nitro; -COOR₁₂ or -SO₃R₁₂ wherein R₁₂ is in each case hydrogen, a cation, C₁-C₁₂alkyl, or phenyl unsubstituted or substituted as indicated above; -SR₁₃, -SO₂R₁₃ or -OR₁₃ wherein R₁₃ is in each case hydrogen, C₁-C₁₂alkyl, or phenyl unsubstituted or substituted as indicated above; -N(R₁₃)-NR'₁₃R''₁₃ wherein R₁₃, R'₁₃ and R''₁₃ are as defined above for R₁₃; -NR₁₄R₁₅ or -N[⊕]R₁₄R₁₅R₁₆ wherein R₁₄, R₁₅ and R₁₆ are each independently of the other(s) hydrogen, unsubstituted or hydroxyl-substituted C₁-C₁₂alkyl, or phenyl unsubstituted or substituted as indicated above, or R₁₄ and R₁₅ together with the nitrogen atom bonding them form an unsubstituted or C₁-C₄alkyl-substituted pyrrolidine, piperidine, piperazine, morpholine or azepane ring; and R₁, R₂, R₃, R₄, R₅, R₇, R₈, R₉, R₁₀ and R₁₁ are as defined above or are hydrogen.

12.(original) A formulation according to claim 11, wherein the ligand L is a compound of formula



wherein

R₃, R₆ and R₉ are as defined for R₆ in claim 11.

13.(original) A formulation according to claim 12, wherein

R₃, R₆ and R₉ are each independently of the others C₁-C₄alkoxy; hydroxy; phenyl unsubstituted or substituted by C₁-C₄alkyl, C₁-C₄alkoxy, phenyl or by hydroxy; hydrazino; amino; N-mono- or N,N-di-C₁-C₄alkylamino unsubstituted or substituted by hydroxy in the alkyl moiety; or an unsubstituted or C₁-C₄alkyl-substituted pyrrolidine, piperidine, piperazine, morpholine or azepane ring.

14.(original) A formulation according to claim 13, wherein R₆ is hydroxy.

15. (original) A formulation according to claim 14, wherein a metal complex compound of formula (1) is formed *in situ* in the dishwashing operation.

16.(currently amended) A formulation according to claim 1 ~~any one of claims 1 to 15~~, wherein the enzyme is a protease.

17.(currently amended) A formulation according to claim 1 ~~any one of claims 1 to 16~~, wherein the enzyme is separated from a component of the formulation.

18.(original) A formulation according to claim 17 wherein the enzyme is encapsulated.

19. (currently amended) A formulation according to claim 1 ~~any one of claims 1 to 18~~, wherein the metal complex compounds of formula (1) is a bleach activation catalyst.

20.(currently amended) A formulation according to claim ~~claims~~ 19, wherein the formulation comprises an additional bleach-activating component.

21.(currently amended) A formulation according to claim 1 ~~any one of claims 1 to 20~~, wherein the formulation comprises a builder.

22. (currently amended) A formulation according to claim 1 ~~any one of claims 1 to 21~~, wherein the formulation comprises a surfactant.

23.(original) A formulation according to claim 22, wherein the surfactant is a nonionic low sudsing surfactant.

24.(currently amended) A formulation according to claim 1 ~~any one of claims 1 to 23~~, wherein the formulation comprises an oxygen source.

25. (original) A formulation according to claim 24, wherein the oxygen source is perborate, percarbonate, hydrogen peroxide or a mixture thereof.

26.(original) An automatic dishwasher detergent formulation, containing

- I) 0 - 30%, preferably 0 - 10%, of a surfactant,
- II) 0 - 90%, preferably 0 - 70%, of a builder / co-builder,
- III) 1 - 99%, preferably 1 - 50 %, of a peroxide or a peroxide-forming substance, and
- IV) a metal complex compound of formula (1) in an amount which, in the liquor, gives a concentration of 0.5 – 200 mg/litre of liquor, when from 0.5 to 20g/litre of the dishwashing formulation are added to the liquor.

27. (currently amended) A formulation according to claim 1 ~~any one of claims 1 to 26~~, wherein the formulation is in the form of a tablet.

28. (currently amended) Use of a formulation according to claim 1 ~~any one of claims 1 to 27~~ in an automatic dishwasher.